4 Channel Digital Video Recorder

User Manual

MODEL Q4DVR4RCM

Protect Your Investments.

www.Q-See.com

All cameras and accessories are compatible with Q4DVR4RCM

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DVR Features

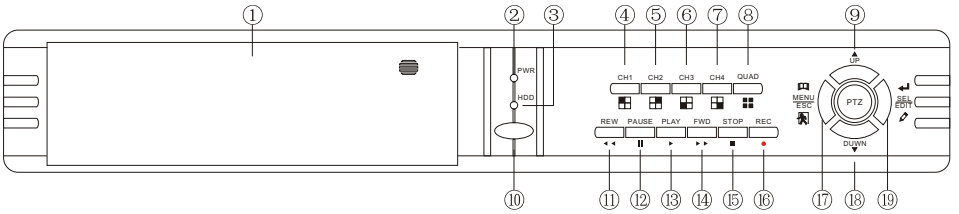
1.DVR Features

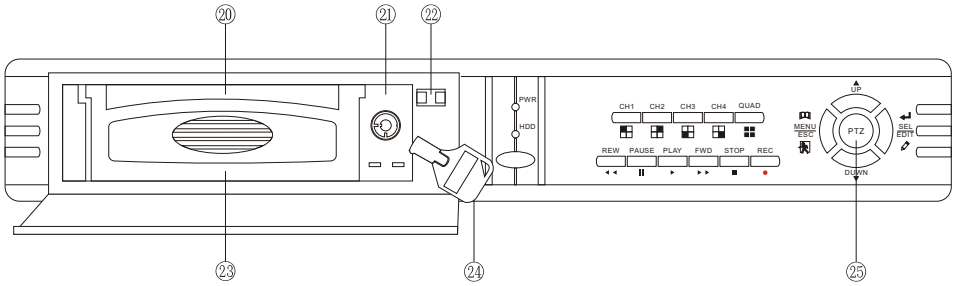
- 4 Channels - BNC Camera Inputs
- 2 Channels - BNC Monitor/VCR Outputs
- NTSC / PAL
- Video Loss Alarm
- Motion Detection With Area Setting
- PTZ Control With RS485 Port.
- Connect PC With USB 2.0 Port
- 4 Sets NO/NC Sensor Input
- 1 Alarm Output (2A 28VDC / 2A 125 VAC)
- One ATA-100 Hard Disk Interface, Support Over 200G Byte
- Time Schedule record / Sensor Triggered Record / Motion Triggered Record
- IR Remote Controller

Outlook

2.Outlook(Picture is for reference only)

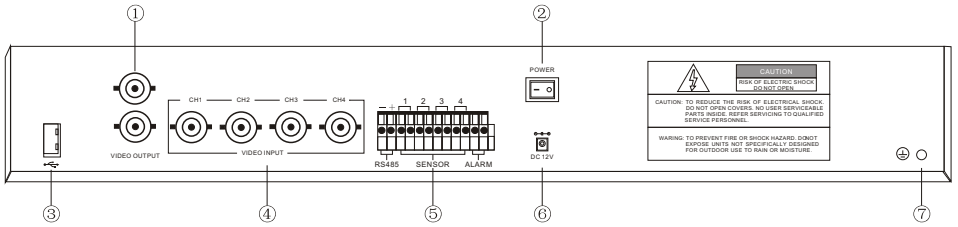
2.1 Front Panel





1.HDD Tray Door
2.Power Indicator
3.HDD Run Indicator
4.Channel 1
5.Channel 2
6.Channel 3
7.Channel 4
8.Quad View
9.Move up
10.IR Window
11.Rewind
12.Pause
13.Play
14.Forward
15.Stop
16.Record
17.Menu /Exit
18.Move Down
19.Select /Edit
20.Vent
21.Key Lock
22.Door Latch
23.HDD Tray Handle
24.Key
25.PTZ Enable Button

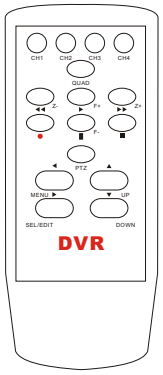
2.2 Rear Panel



1. Video Output
2. DC Power Switch
3. USB Port
4. Video Input
5. RS485/Sensor Input/Alarm Output
6. DC Power Input Jack
7. Case Ground Terminal

2.3 Remote Control

CH1: Select or enlarge CH1
CH2: Select or enlarge CH2
CH3: Select or enlarge CH3
CH4: Select or enlarge CH4
QUAD: Quad View



◂◂: Reverse Play
▸: Play
▸▸: Fast Forward Play
● : Record
|| : Pause
■: Stop recording or playing
PTZ: PTZ control
Z-: Zoom out
F+: focus+
Z+: Zoom in
F-: focus-
MENU: Enter or exit setup menu
SEL/EDIT: Change selection
UP: Move up prompt
DOWN: Move down prompt

DVR Installation

3.DVR Installation.

3.1 Install Removable HDD Box

1. Power Indicator
2. HDD Run Indicator
3. Key Lock
4. PVC Frame
5. Tray handle
6. Air Vent
7. HDD data cable
8. HDD power cable

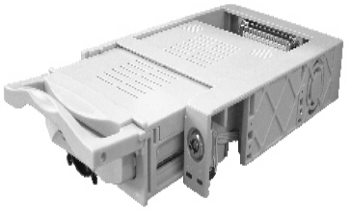


Fig1

CAUTION
DON'T take out HDD when DVR running!

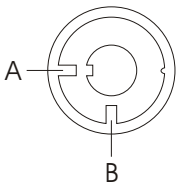
Slide the carrier body out of the cartridge frame (Fig1)

Fig2

Connect the HDD data cable and the power cable to the HDD (Fig2)

Fig3

Push the tray into the cartridge frame until fully inserted and handle pushed downward (Fig3). Lock tray in place and power up unit. A New HDD should always be formatted (see HARD DISK SETUP Menu).



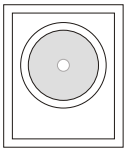
Key Lock

A: Locked（Non-removable）
B: Unlocked(Removeable)

3.2 Connect Cameras and Monitor

There are 4 camera inputs and 2 monitor outputs (BNC connectors).

3.3 Connect Power



Please use only the power adapter supplied with your DVR.

4.DVR System Boot

4.1 Detecting Installed Hard Disk

After connecting the power, system will boot-up and detect installed hard disk. On Monitor it will show Master and Slave hard-disk information.Please make reference to hard disk manual to configure hard disk sequence. (Master or Slave).

4.2 Recovering Lost Data

Power interruption can cause data to be lost. System will ask: " Recover HDD" , Please press [↵ SEL/EDIT] to proceed if HDD contains video you wish to save. Press [🕮 MENU](NO) for faster reboot without saving video.

4.3 Restore Recording Process

When power-error happen during recording process, system will automatically restore recording process after power Re-connected.

4.4 Main Screen

Firstly, The DVR to start for system working.DVR will be sense of four cameras are shown on the monitor.

Upper left: ratio of hard disk space used.

Middle: channel name(CH1 ～ CH4).

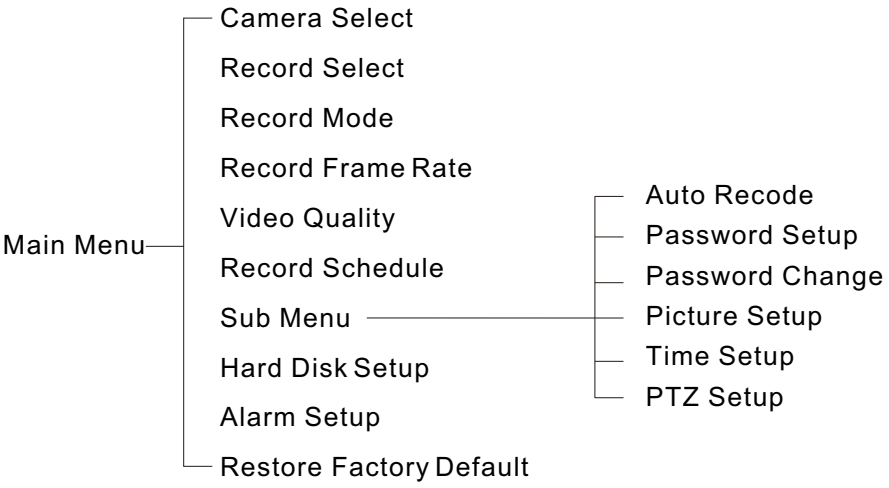
Bottom right: date andtime show on there.DVR is waiting for key function,press[🕮 MENU] into DVR setup process.

5.DVR Setup

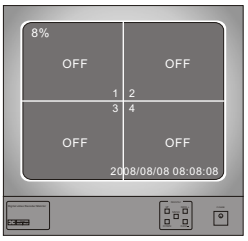
5.1 Main Menu

Press[MENU] to enter MAIN MENU, use [▲UP] and [▼ DOWN] to select item, press [↵ SEL/EDIT] to modify setting and [MENU] to confirm and exit.

Menu Directory



5.2 Camera Select



Your DVR can display 4 cameras on one screen (Quad Mode). You can configure which camera(s) to display.

Press [↵ SEL/EDIT] to change the setting or press [CH1]、[CH2]、[CH3]、[CH4] to set each channel separately. If a channel is not used, the system will display "OFF" on the monitor for that channel.

5.3 Record Select

Configure which channel is allowed to record.

5.4 Record Mode

Each Mode: Compress and record each channel video separately, therefore, user can enlarge single channel video to full screen display. For example, user can turn off record function of CH~1 and CH~2 and then system only record CH3 and CH4 video.

Press[CH1], [CH2], [CH3], [CH4] to switch channel to display when playback recorded video.

Only in this mode, when system is in watching mode or recording mode, press [QUAD] button over 3 seconds to make each channel video enlarge to full screen and then display in quad mode in sequence again

and again, DVR will not change its state until user press any key.

Quad Mode: Compress and record all 4 channel video into one file, therefore user can not enlarge single channel to full screen. User can't use the each mode record in this mode. Record frame rate will affect the movement of object in recorded video. More frames means more smooth movement and cost more hard disk space. System default value is 25 fps, that means system will record 25 frame per second. User can set frame rate as **25**、**12**、**8**、**6**、**4**、**3**、**2**、**1** frames per second.

If "AUDIO RECORD" (in SUB MEMU) is ON, User can set frame rate as **25**、**12**、**8**、**6**、**4** frames per second. (Please refer to "5.8 AUDIO RECORD".)

5.5 Record Frame Rate

Record frame rate will affect the movement of object in recorded video.More frames means more smooth movement and cost more hard disk space. System default value is 25 fps, that means system will record 25 frame per second. User can set frame rate as **25**、**12**、**8**、**6**、**4**、**3**、**2**、**1** frames per second.

If "AUDIO RECORD" (in SUB MEMU) is ON, User can set frame rate as **25**、**12**、**8**、**6**、**4** frames per second. (Please refer to "5.8 AUDIO RECORD".)

5.6 Record Video Quality

There are three different video quality settings: **High**、**Normal** and **Low**. The higher the video quality is set, the more space is consumed on the hard disk.

Record frame rate, record quality, and hard disk size affects the total record time of all DVR systems.

5.7 Record Schedule

User can setup video record method by time,sensor Triggered and Motion Triggered.

"—" No Record.
"**T**" Continue, (System Default).
"**A**" Sensor Triggered or Motion Triggered.
Cooperate with many kinds of external sensor equipment like PIR, Gas sensor. DVR will not record video until external sensor was triggered and output signal to notify DVR during this specified period of time.
Button function:
[▲ UP] [▼ DOWN]:move the prompt.

5.8 Sub Menu-Auto Record

When you choose "ON" DVR will be active to record automatically if DVR has not been operated in five minutes.
When you choose "OFF" DVR will not record until you press [●RECORD] button.

5.9 Sub Menu-Password Setup

When password set is "ON", Stop recording or enter menu will need Password, If password set is "OFF", All password will be cancelled.

5.10 Sub Menu-Password Change

System default password: Press six times of [CH1] button

All keys can be used as password key except [MENU] key, which is used for confirming and exit.

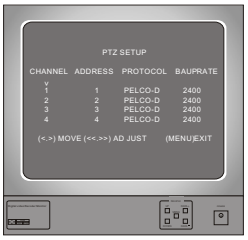
5.11 Sub Menu-Picture Setup

"HUE": 0-99
"SATURATION" 0-99
"CONTRAST" 0-99
"BRIGHTNESS" 0-99
Button function:
[▲ UP][▼ DOWN]: move the prompt
[◀◀ REW]: Increase Value
[▶▶ FWD]: Reduce Value
[CH1~CH4,QUAD]: Select Channel
[MENU]: exit.

5.12 Sub Menu-Time Setup

Configure DVR system time. Press[▲ UP] and [▼DOWN] to move prompt and press [↵ SEL/EDIT] to modify. Press [MENU] to save and exit.

5.13 Sub Menu-PTZ Setup


PTZ SETUP
CHANNEL ADDRESS PROTOCOL BAUDRATE
1 1 PELCO-D 2400
2 2 PELCO-D 2400
3 3 PELCO-D 2400
4 4 PELCO-D 2400
(<.>) MOVE (<<.>>) AD JUST (MENU)EXIT

CHANNEL: Camera Number.
ADDRESS: Dome's address "0-255".
PROTOCOL: Including "PELCO-D"、"PELCO-P"、"SAMSUNG"、"BO1"、"NEON"、"CTNCOM", Setting the protocol according to the dome's protocol.
BAUD RATE: Press [↵ SEL/EDIT] button to select the value 1200、2400、4800、9600、19200 bps.

If you have a compatible speed dome camera attached to your DVR, press the "PTZ" button and select the camera number that you wish to control. You can use "UP"、"DOWN"、"RIGHT" and "LEFT" buttons to control the speed dome's horizontal and vertical positioning. Press the "REW","FWD","PAUSE", and "PLAY" buttons to control the speed dome's ZOOM and FOCUS functions.

NOTE: Make sure all the lines are correctly connected to the speed dome, and the proper protocol, baud rate, and address are set per its instructions.

5.14Hard Disk Setup

OVERWRITE ENABLED: If you choose YES, recording continues and overwrite previous recording when hard disk drive space is full.

If you choose NO, the recording session stops when all hard disk drive is full for recording.

MASTER HDD SIZE: It shows the size of the primary hard disk drive installed in the DVR.

MASTER HDD USED: It shows the space used on the first hard disk drive for recording and the percent Of the used hard disk.

MASTER HDD FORMAT: If you format the hard drive, it will erase all the data recorded on the first hard disk drive.

Notice: when you first use a HDD in the DVR, please use this function to format the HDD. Otherwise the computer will not find the HDD when you connect the DVR to the computer by using the USB cable.

SLAVE HDD SIZE: It shows the space the secondary hard disk drive installed in the DVR.

SLAVE HDD USED: It shows the space used on the primary hard disk drive for recording.

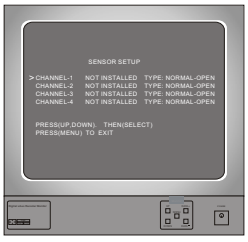
SLAVE HDD FORMAT: If you format the hard drive, it will erase all the data recorded on the secondary hard disk drive.

5.15 Alarm Setup

Alarm Record Duration: The number indicates how long triggered recording lasts after the sensors are triggered or the movements in front of the camera.

Alarm Duration: It controls how long (in seconds) the alarm lasts after the system is triggered.

Buzzer Duration: Buzzer time set (OFF、05、10、15、20、 25、 30 seconds and CONT) , User can press [↵ SEL/EDIT] to set the time .When Buzzer Time is "OFF", All the buzzers will be shut off. When " Buzzers Time" is "CONT" ,the buzzer will work continuously.


SENSOR SETUP
> CHANNEL-1 NOT INSTALLED TYPE NORMAL-OPEN
CHANNEL-2 NOT INSTALLED TYPE NORMAL-OPEN
CHANNEL-3 NOT INSTALLED TYPE NORMAL-OPEN
CHANNEL-4 NOT INSTALLED TYPE NORMAL-OPEN
PRESS(UP,DOWN). THEN(SELECT)
PRESS(MENU) TO EXIT

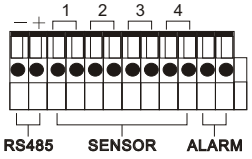
Sensor Setup:

There are 3 different modes for sensor setting: NOT INSTALLED, NORMAL-CLOSE and NORMAL-OPEN.

It depends on what type of external sensor you use. If sensor's output is NORMAL-OPEN then select NORMAL-OPEN mode in DVR.

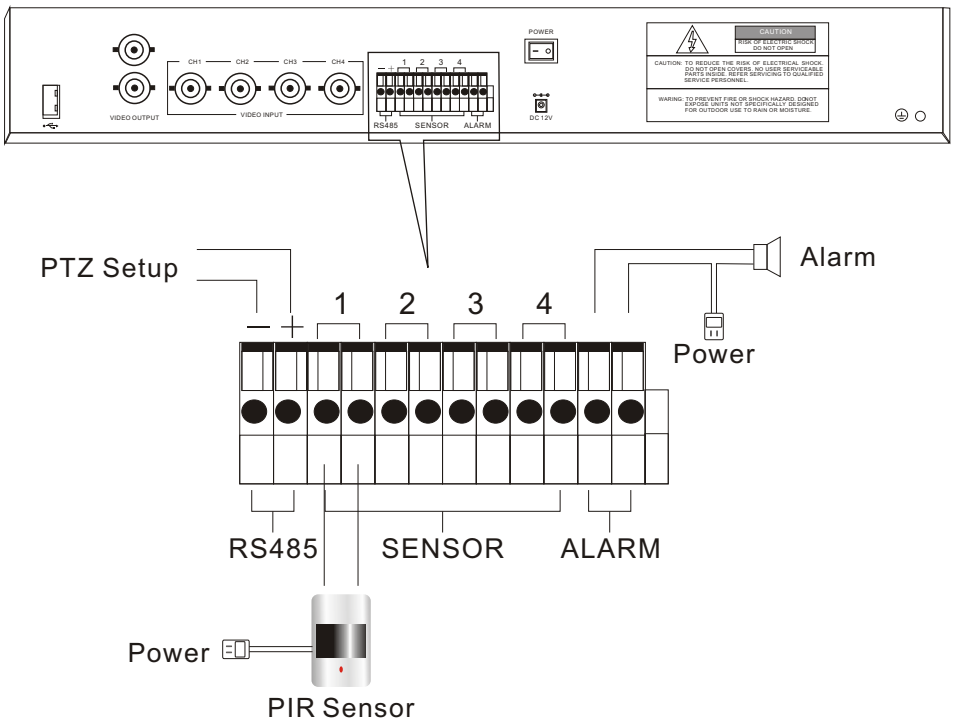
If sensor triggered by an intruder then the cable line connects to DVR input terminal will notify system to start recording.

There are four pairs of input terminal supported by DVR.

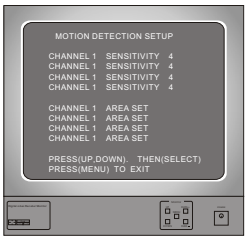


Push the UNLOCK BUTTON above the wire hole to insert or pull out a wire.

Installation example diagram:


VIDEO OUTPUT
CH1 CH2 CH3 CH4
VIDEO INPUT
1 2 3 4
RS485 SENSOR ALARM
POWER
DC 12V
CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT OPEN COVERS. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
WARING: TO PREVENT FIRE OR SHOCK HAZARD, DONOT EXPOSE UNITS NOT SPECIFICALLY DESIGNED FOR OUTDOOR USE TO RAIN OR MOISTURE.
PTZ Setup
Alarm
1 2 3 4
Power
RS485
SENSOR
ALARM
Power
PIR Sensor

Connect PIR sensor NO/NC output to DVR input terminal.(Max. 5V DC)



Motion Setup: The first step, User need setup video record method by Motion Triggered. Please make Reference to 5.7.

CHANNEL 1- 4 SENSITIVITY: User can press [↵ SEL/EDIT] to adjust sensitivity grade of motion detection.

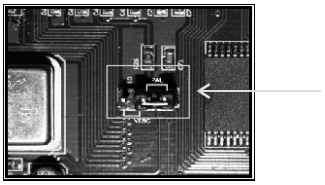
High(1----------9,OFF) Low, When it's off, the channel can not be triggered by movement.

CHANNEL 1-4 AREA SET: Press[↵ SEL/EDIT] to enter area setting state, the picture of selected channel is divided into 144(12×12) blocks, and then press[▦ CH1] to move left, press [▦ CH2] to move right, press [▲ UP] to move up, press [▼ DOWN]to move down, press[↵ SEL/EDIT] to set the block is active or not. When the block is transparent, it's active to record; when the block is covered by shadow, It can not be recorded.

5.16 NTSC/PAL Output Select

After completed the "MOTION SET", User can exit MENU, And press [● REC] to star Motion Record.

Disconnect the power supply. Change jumper JS1 to select NTSC or PAL video output format according to the silkscreen on the circuit board.



5.17 Restore Factory Default

Press [↵ EDIT] Button to make the system load factory default.

Record

6.Record

6.1 Start Recording

Press [●REW] to start recording. System will display some information on Screen. Only EACH MODE can enlarge single channel to full screen display

① Hard Disk Used
② "R" Recording Symbol
③ Channel Names
④ Mode(QUAD or EACH)
⑤ Status(REC, Play, FF1, FF2, FF3, REW, PAUSE)
⑥ HD Info.([M] Master disk in use)
⑦ Schedule ((T) Continuous 、(A) Sensor or Motion、(—) No Record
⑧ The time and date of the DVR

6.2 Stop Recording

Press[■ STOP] and system may prompt you to input your password. Only your correct password can stop recording process (if you have this feature enabled).

6.3 Recording Length

Estimated record time based on 120G Byte HDD (Quad Mode)

Format	Quality	Frame Rate	30	5	7	1
NTSC (HOURS)	HIGH	20K / frame	58	117	251	1748
	NORMAL	15K / frame	78	155	333	2330
	LOW	12K / frame	97	194	416	2913

Format	Quality	Frame Rate	30	5	7	1
PAL (HOURS)	HIGH	20K / frame	70	146	291	1748
	NORMAL	15K / frame	93	194	388	2330
	LOW	12K / frame	117	243	485	2913

User can calculate and estimate record hours by below formula120G Byte @ 7 frames per second @ Normal quality

$$\frac{120\ (\text{G byte}) \times 1024\ (\text{M byte}) \times 1024\ (\text{K byte})}{15\ (\text{Kbyte/frame}) \times 7\ (\text{frame/sec}) \times 60\ (\text{sec}) \times 60\ (\text{min})}$$

Estimate hours is 332 Hours

Playback

7.Playback

Press [▶ PLAY] then system will list all recorded video clip from HD. Newest video will at top of the list, press [▲UP] and [▼ DOWN] to select start time and press[▶ PLAY] again to start play video to the end.

① HDD Information
② Start Time
③ End Time
④ TIME: Continuous record file
⑤ ALARM: Sensor or Motion Triggered

Another way to search video is to directly input the time period. Press[▶▶ FWD] and then press[▲UP] and[▼ DOWN] to move the prompt. Press[↵ SEL/EDIT] to edit time value and press[▶PLAY] to play video.

08/08/08 08:08:08 --08/08/08 08:08:08

Note: [⏸ PAUSE] button may be used during playback to freeze video.

USB Programming

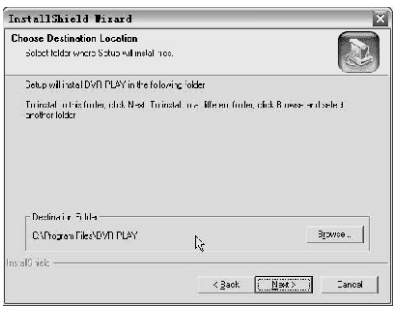
8.USB Programming

8.1 Install

1. Place the USB Driver Program CD into your CD ROM.

2. If your CD ROM does not auto-run the install CD, go to “My Computer”, select your CD drive, and click on “Setup.exe”.

3.Follow the prompts on your PC to finish the installation.



8.2 Program Interface

To run the program(Double click “ ” icon on your desktop).

System will detect the HDD automatically when you connect the USB cable to your PC.

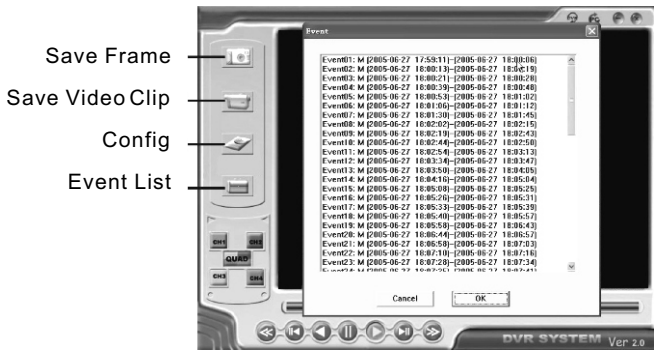
Note: If the HDD is not detected, please perform the followings steps:(1) Close the USB program window, and remove the USB cable, (2) Press [▶ PLAY] twice to enter the DVR into the Playback mode,(3)Connect the USB cable to PC again.

Please allow up to 30 seconds for the DVR to show video on your PC.

Button functions:

1 Save Frame	12 Reverse play
2 Save Video Clip	13 Pause
3 Config	14 Play
4 Event List	15 Forward one frame
5 Channel 2	16 Fast forward
6 Channel 1	17 Scroll Bar
7 Quad Mode	18 Version of the program
8 Channel 3	19 Play DVR video file
9 Channel 4	20 Play PC video file
10 Fast Reverse	21 Minimize viewer
11 Back one frame	22 Close viewer

Press to open the event video list.



Press to configue the DVR play/record system.

Press to play video .

Specification

9. Specification

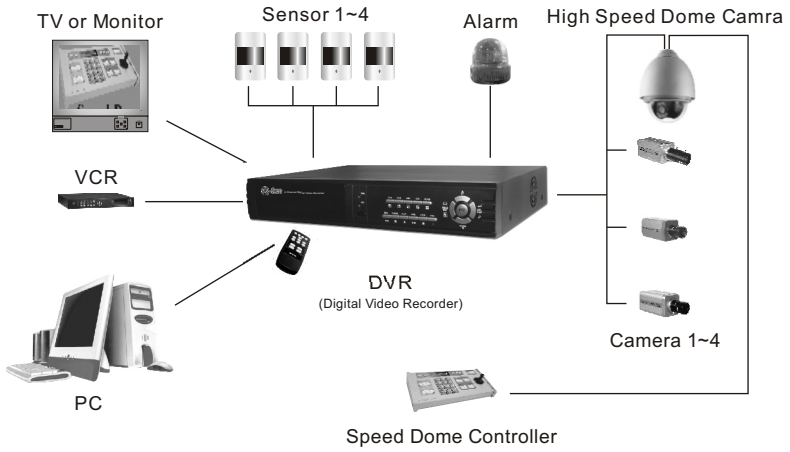
ITEM		DESCRIPTION	NOTE
Video Format		NTSC / PAL	
Operation System		STAND ALONE	
Camera Input Channel		4 channel Composite BNC	STAND-ALONE
Video Output Channel		2 channel Composite BNC USB 2.0 Port	
Display Frame Rate	NTSC	120 frames	4×30 frames
	PAL	100 frames	4×25 frames
Recording Frame Rate	NTSC	Max 30 fps (Quad)	Quad Mode
	PAL	Max 25 fps (Quad)	Quad Mode
Recording Frame Rate(Each Mode)	NTSC	Each Channel = 30÷Number of Source(frames)	Max. 30 frames (Each Channel)
	PAL	Each Channel = 25÷Number of Source(frames)	Max. 25 frames (Each Channel)
Record Modes		Continuous, Schedule, Motion Triggered , Sensor Triggered	
Resolution	Display	NTSC:720×480 PAL:720×576	
	Record	NTSC:320×112, 640×224 PAL:320×136, 640×272	Quad:640×224 (total) Each:640×224
Video Compression Format (Each Channel)		Modified Motion-JPEG (12-20K bytes/frame)	Low :12K Byte Normal :15K Byte High : 20K Byte

HDD Support		Over 200G Byte	ATA -100 Interface
Estimated Record Length		120G Hard disk @ 7 fames per second @ Normal Quality (120×1024×1024 K byte) ÷ (7×15×60×60) = 332 Hours	
Search	Method	Time, Date, Event	
	Full Screen	YES	
Sensor, Alarm		4 Inputs (Normally Open / Normally Closed) 1 Output (Relay 2A 28VDC / 2A 125VAC) Camera Signal Loss Alarm	
PTZ		YES	PELCO-D PELCO-P
USB		YES	USB2.0 Port for playback
Dimensions		Length 15.7 in × Width 10.8 in ×Height 2.7 in	

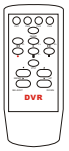
Appendix

10.Appendix

10.1 System Connect Sketch Map



10.2 Fittings Come Along With DVR



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